

INTERNATIONAL SEARCH REPORT

10 Rec'd P

3 SEP 2004

International Application No

PCT/EP 03/01945

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L27/34 H04L25/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 199 12 825 C (SIEMENS AG) 10 August 2000 (2000-08-10)	1,2, 7-16,21, 22,24-30
Y	abstract page 2, line 57-64 page 3, line 21-27 page 4, line 11,12 page 4, line 53-55 page 5, line 12-28; figure 6 --- -/--	6,10,20, 23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

9 July 2003

Date of mailing of the international search report

23/07/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Stolte, N

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/01945

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>HELLSTERN G: "CODED MODULATION WITH FEEDBACK DECODING TRELLIS CODES" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON COMMUNICATIONS (ICC). GENEVA, MAY 23 - 26, 1993, NEW YORK, IEEE, US, vol. 2, 23 May 1993 (1993-05-23), pages 1071-1075, XP000371241 ISBN: 0-7803-0950-2 Equation (6)</p>	10,23
Y	<p>US 5 657 354 A (THESLING III WILLIAM H ET AL) 12 August 1997 (1997-08-12) column 3, line 58-67</p>	6,20
A	<p>SPETH M ET AL: "LOW COMPLEXITY SPACE-FREQUENCY MLSE FOR MULTI-USERF COFDM" 1999 IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE. GLOBECOM'99. SEAMLESS INTERCONNECTION FOR UNIVERSAL SERVICES. RIO DE JANEIRO, BRAZIL, DEC. 5-9, 1999, IEEE GLOBAL TELECOMMUNICATIONS CONFERENCE, NEW YORK, NY: IEEE, US, vol. 5, 5 December 1999 (1999-12-05), pages 2395-2399, XP000958550 ISBN: 0-7803-5797-3 Equation (5) and (6) figure 1</p>	1-30
A	<p>FAGERVIK K ET AL: "Low complexity bit by bit soft output demodulator" ELECTRONICS LETTERS, IEE STEVENAGE, GB, vol. 32, no. 11, 23 May 1996 (1996-05-23), pages 985-987, XP006005177 ISSN: 0013-5194 page 986, right-hand column, paragraph 2</p>	1-30
A	<p>WO 00 44141 A (ERICSSON INC) 27 July 2000 (2000-07-27) abstract page 5, line 1 - line 15 page 9, line 16 - line 19 page 12, line 10 - line 13</p>	1,15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/01945

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 19912825	C	10-08-2000	DE 19912825 C1	10-08-2000
			EP 1039705 A2	27-09-2000
US 5657354	A	12-08-1997	NONE	
WO 0044141	A	27-07-2000	AU 2596000 A	07-08-2000
			CN 1339215 T	06-03-2002
			EP 1147641 A1	24-10-2001
			TR 200102153 T2	21-12-2001
			WO 0044141 A1	27-07-2000